
Our University Helps Cairo Metro Overcome Obstacles

Dr. Eisenstein (Civil Engineering) and his research team spent two years (off and on) in the tunnels of Cairo's recently opened subway system while it was being built, observing and measuring the effects below and above ground of tunnelling and construction.

Their work made it possible to evaluate building techniques (and modify them if necessary) at an early stage in the project.

This approach to design and construction is called the 'observational method of design' and our University is a leader in the field.

Dr. Eisenstein, who has been working with the method for the past 10 years, describes the technical problems of building tunnels and underground stations for the Cairo system as "unique. Difficult ground conditions, high groundwater levels and the close presence of the mighty Nile—as well as of many important historic structures—made the project an awesome task."

An extensive geotechnical and structural measurement program was carried out on the site, so that the experience gained on this first line of the metro system could be used in designing the second and third lines, now in the planning stages. The program, sponsored by the Egyptian National Authority for Tunnels in Cairo and by the Canadian International Development Research Centre in Ottawa, was carried out jointly by the University of Alberta team (usually three, occasionally four, members) lead by Dr. Eisenstein, and the Ain Shams University in Cairo. The Canadian team designed and installed the on-site

measurement systems and trained the Egyptian engineers in the practice of day-to-day site monitoring.

Dr. Eisenstein has been involved in the design and construction of a number of major tunnelling projects, including LRT tunnels for the City of Edmonton, the Rogers

Pass Tunnel (where the railway tunnel goes under the TransCanada Highway), a major tunnel for the Nipawin dam in Saskatchewan, a large sewer collector tunnel in Ottawa, and several tunnels in the city of Sao Paulo in Brazil. He is also involved in work on the new line for

Toronto's metro system.

A report on the Cairo project has already been published, and a major paper on the subject (authors are Dr. Eisenstein and two Egyptian colleagues) will be delivered at the International Congress on Tunnelling in Madrid in June 1988. □

FOLIO

University of Alberta

15 October 1987

Will You Help Those Who Need Help Most?

We all feel pressured by the barrage of requests for help that—because of the downturn in the economy—keep coming at us from all sides.

It's difficult to decide who needs our contribution most.

After all, we, too, have been affected by the downturn in the economy.

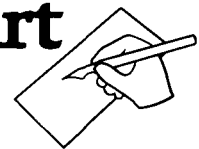
But what about the jobless, the homeless, the hungry, the elderly on fixed incomes, the mentally and physically disabled, the victims of abuse and neglect?

The needs of our community—our neighbors, our friends, even our own



Play your part

United Way
of Edmonton and Area



families—have not diminished, and won't diminish in the year to come. Each of us shares in the responsibility to take care not only of ourselves but also of those among us who are unable to look after themselves.

That's why a donation to the United Way is the best way to give.

The United Way combines 41 individual agency appeals into one, stretches your \$ to the limit, uses the energies and talents of thousands of community volunteers, continually searches for more effective and efficient ways of meeting community needs, avoids duplication of services, sets funding priorities. And accounts to the community for everything it does.

Your gift once a year will provide year-round help for those who need it most. From the Arthritis Society to the YWCA, from the CNIB to Volunteer Reading Aides, your contribution will go where it does the most good in the best way.

Save yourself the agony of

indecision! Decide now to make one contribution—to the United Way. Gifts can be made by payroll deduction(s) or by cheque. If you wish, you can choose the specific agency you'd like to benefit from your generosity.

For more information, call Ann Fox in the Comptroller's Office, 432-3207. □

University Art Teacher in Winning TV Series

Bernie Schwartz (Elementary Education) is part of an award-winning TV series aimed at introducing young people to the world of art.

The 10-part series called "Encounters" did well in San Diego's First Choice 87, a screening of 120 new instructional TV shows, and will now be broadcast by satellite TV throughout the United States and Canada.

In his "Encounters" segment, Dr.

Schwartz wears his TV artist hat on camera, showing his viewers how their reactions to things are shaped by their viewing point.

"Encounters" was produced by ACCESS Network. First Choice 87 is carried out annually by the Agency for Instructional Technology, a non-profit U.S.-Canadian organization established in 1973, to lobby for increased technology (television, video) in education. □

Contents

- Details of Killam largesse fresh in trustee's mind
- Tobin Marks giving Boomer Lectures
- Newton's *Principia* subject of lecture by Nobel laureate



Scholars Live Up to the Killam Tradition

In her will, Dorothy Killam stated: "It is my desire that those selected to receive Scholarships shall be likely to contribute to the advancement of learning or to win distinction in a profession and it is my hope that insofar as possible Scholarships will be granted for work either leading or subsequent to a doctorate or for work of similar standing."

This year's scholars definitely meet the wishes of the late Mrs. Killam.

Postdoctoral Killam Scholar Gordon Harvey will spend his time developing an interest outside his official specialization in Renaissance studies. Dr. Harvey, who will also teach in English, plans to concentrate on the poetry of Edgar Bowers with the intent of eventually publishing a short book or series of articles. A graduate of the University of Alberta (BA, MA), Dr. Harvey received his doctorate in English from Stanford University.

Skills in bringing together theoretical concepts in the area of development education and applying them in an immediate and practical way drew the attention of the Killam Scholarship Committee to Carlos Torres. Dr. Torres, a native of Argentina, will base his research project—the study of adult education policy formation and the benefits of literacy training in Mexico—in the Department of Educational Foundations. He earned his baccalaureate at Universidad del Salvador and his graduate degrees from Stanford University.

Artificial intelligence and systems programming is Alexander Reinefeld's area of interest. In addition to looking at the design and empirical investigation of new search algorithms, Dr. Reinefeld will work on the development of powerful models to assess the efficiency of search techniques on a theoretical basis. An alumnus of the University of Hamburg, he will take a position with Computing Science.

During his term as a Killam Postdoctoral Scholar, David Stern will work on a book concerning the development of Wittgenstein's philosophy, its place in the history of philosophy and its implications for contemporary philosophy. Born in London, England, Dr. Stern studied at Oxford (BA) and the Universities of Pittsburgh (MA) and California (MA, PhD).

The research of the Killam Doctoral Scholars is also wide ranging.

Paul Belanger (Romance

Languages) plans to specialize in medieval Spanish literature under supervisor Richard Young.

Chemistry doctoral student, Jian Chen, will conduct research in several areas which will lead to a deeper understanding of the reaction mechanisms of particular coenzymes.

Pui-wan Cheng (Educational Psychology) will concentrate on learning more about the nature of comprehension monitoring in reading.

Anthropologist Nancy Collinge will use her Killam Scholarship to set up an ethological study of social

behavior in zoo colonies of two species of new-world monkeys and examine the data from a cognitive point of view.

Michael Duke (Geology) will bring his geochemistry skills to bear on the isotope geology of the Nuk Gneisses of western Greenland.

The poetry of John Milton will be delved into by David Gay (English).

Xian-Qin Hu (Geology) will study the stability of natural rock slopes in stratified rocks in the Canadian Rockies.

Computing Science student

Chung Hwang plans to construct a computer program for a formal inference structure for language understanding.

Tianxuan Miao will continue his work in mathematics specializing in harmonic analysis.

In Physical Education and Sport Studies, Robert Pitter is looking at the socio-cultural study of sport.

Stephen Smith (Secondary Education) is addressing the notion of "risk" as it is represented in the playground activity of children.

David Stredulinsky (Mechanical Engineering) will investigate the various ways to gauge noise levels. □

The Story Behind the Killam Vision

The dream of Izaak and Dorothy Killam became a reality many years ago. It was most recently celebrated and reflected upon at the annual Killam Scholars dinner, 29 September.

While the Killam vision came to the fore in 1967 it was initiated some 10 years earlier when Dorothy Killam began to ponder the wishes of her late husband, Izaak. (He died in 1955 leaving his entire fortune to his wife, who was familiar with his plans for the disbursement of his finances.) Despite being in poor health herself, Mrs. Killam spent the next decade researching and detailing just how the Killam fortune could best be used to advance scholarship, medicine and culture in Canada.

She spent considerable time investigating methods of establishing the Killam Trusts. Her legal counsel from 1958 until her death in 1965 (he's now the senior Killam Trustee), Donald Byers, remembers Mrs. Killam's endless questions vividly: "How should I distribute the money? Should I distribute it equally among the provinces? Should I give some of the money outright to the universities?" He also recalls the time she decided to see how other people had established similar Funds. "She was curious about the Rhodes scholars," says Mr. Byers, "and she had me set about to locate a copy of the Rhodes Will so she could compare notes."

How then did she finally decide who was to benefit from the Killam generosity? Mr. Byers explains that it really wasn't all that complicated. Mr. Killam had a favorite cousin living in Vancouver, so Mrs. Killam chose UBC. Here in Alberta, one of Mr. Killam's most profitable businesses was Calgary Power

(now TransAlta Utilities) so, as the only University in the province at the time, the University of Alberta was placed on the recipient list (the University later gave one-third of the bequeathed Killam funds to the fledgling University of Calgary). Dalhousie University in Halifax was a logical choice. Mr. Killam had grown up not far from the city and spent many years of his

business life there. Realizing the importance of medicine, Mrs. Killam chose to donate a considerable sum to the Montreal Neurological Institute (she and her husband had moved to Montreal from Halifax).

Not wanting to leave the rest of Canada on the outside looking in, Mrs. Killam gave about \$45 million

Continued on page 2

FOLIO

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**Office of Public Affairs
423 Athabasca Hall
University of Alberta T6G 2E8
(403) 432-2325**

*All enquires and
correspondence should be
directed to:
Ron Thomas
Editor*

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



**University
of
Alberta**

Deadline

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made.

Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

Folio contents may be reprinted with acknowledgment.

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Tobin Marks Lines Up Boomer Lectures

The Boomer Lecturer for 1987 is Tobin Marks.

A professor of chemistry at Northwestern University in Evanston, Illinois, Dr. Marks will lecture on 21, 22 and 23 October. The particulars are: "Nonclassical Organometallic Chemistry, Thermochemistry, and Homogeneous Catalysis at Actinide Centers" (21 October, 11 a.m., V-107 Physical Sciences Complex); "Surface Coordination Chemistry. Heterogeneous Olefin Hydrogenation and Polymerization Catalysis" (22 October, 11 a.m., E3-25 Chemistry Building); and "Design and Construction of Metal-Like Molecular Assemblies" (23 October, 1 p.m., E3-25 Chemistry Building).

Dr. Marks was born in Washington, D.C. He obtained his BSc from the University of Maryland and PhD from the Massachusetts Institute of Technology, and was appointed assistant professor of chemistry, Northwestern University, in 1970. He was promoted to Professor in 1978, and in 1986 became the Charles E. & Emma H. Morrison Professor of Chemistry at Northwestern.

Dr. Marks' research interests are extremely diverse, but could be described as representative of inorganic chemistry in its broadest sense. His contributions to the organometallic chemistry of the lanthanides and actinides are changing the face of that challenging area. Beyond that field,

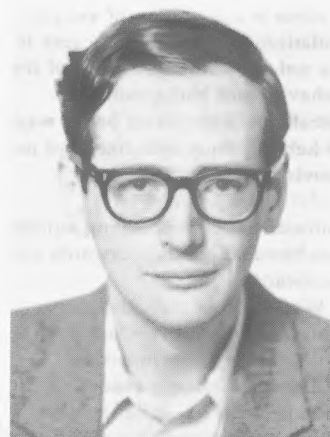
his interests include catalysis, vibrational spectroscopy, nuclear magnetic resonance, synthetic facsimiles of metalloprotein active sites, carcinostatic metal complexes, solid state chemistry and low-dimensional molecular metals, nonlinear optical materials and polymer chemistry.

The topics chosen by Dr. Marks for the Boomer Memorial Lectures provide a cross section of these interests.

(The 1987 lectures are the 29th in a series inaugurated in 1958 to recognize the contributions of E.H. Boomer, who was associated

with the Department of Chemistry from 1925 to 1945.)

Dr. Marks is a member of the American Chemical Society, the Society for Applied Spectroscopy, the International Society for Magnetic Resonance, the Materials Research Society, Sigma Xi and Phi Beta Kappa. He has served on several editorial advisory boards and is currently associate editor of *Organometallics*. Dr. Marks has been honored by many universities as a distinguished visiting lecturer, among them the University of Ottawa where he was the Lemieux Lecturer in 1984. □



Tobin Marks

Committee Promotes Responsible Use of Alcohol

For three days last week (5 to 7 October), students and staff were reminded of the need to be responsible whenever alcohol is available for consumption.

Alcohol Awareness Week, sponsored by the Alcohol Awareness Committee, included a talk by Chancellor Tevie Miller on the importance of responsible drinking practices; breathalyzer demonstrations; and a beer garden in the quad.

The committee has a number of potential activities for 1987-88 on its plate. These, says chairperson Heather Jones, include party management workshops (sessions providing information on

University regulations concerning the use of alcohol on campus, how to get a liquor licence and what security is required) and bartender courses (given in conjunction with the Alberta Vocational Centre). Ms. Jones notes that the committee will also begin a designated driver program that may, later on, be expanded to include staff.

The committee was struck a year ago as the result of a feasibility study prepared by Ms. Jones, then a summer student, for the Alberta Alcohol and Drug Abuse Commission. Once her study was accepted by AADAC, Ms. Jones approached the University and it was subsequently welcomed by central administration.

The committee which consists of eight people (four students and four others representing Housing and Food Services, Physical Education and Recreation, Student Health Services and AADAC), is

looking at approaching the appropriate University departments to encourage them to offer more alcohol awareness courses. □

First-Year Enrolment Increase: Correction

The comparative percentages of first-year enrolments in Arts, Science and Faculté Saint-Jean were incorrectly reported in last week's FOLIO. The correct figures are as follows:

The Faculty of Arts admitted 15.4 percent more first-year students this year than last year; Faculty of Science first-year admissions are up 15.1 percent over last year; and in Faculté Saint-Jean this year there are 31.8 percent more first-year students than last year. □

The Killam Vision Continued from page two

to the Canada Council so "they could decide who throughout the country the money should be given to."

According to Mr. Byers, "Mrs. Killam was tireless in her efforts to obtain as much information as possible before finalizing her Will." In fact, he hastens to add, she changed her Will about once a year. When she died, Mrs. Killam had doubled the value of the original estate. In her Will she clearly stated the purpose of the Memorial Funds for Advanced Studies: "My purpose in establishing the Killam Trusts is to help in the building of Canada's future by encouraging advanced study. Thereby I hope in some measure to increase the scientific and scholastic attainments of Canadians, to develop and expand the work of Canadian universities and to promote sympathetic understanding between Canadians and the peoples of other countries.

... a Killam scholar should not be a one-sided person and each scholar's special distinction of intellect should be founded upon sound character and good manners. . . ."

At the time of her death, the Killam fortune stood at \$100 million. Mr. Byers says that executing the Will was relatively easy because it was "so straightforward" (about \$7 million to individuals and the remainder split equally between the universities and the Canada Council).

"Because the Will was simple, we were able to begin the process of establishing the Killam Trusts almost immediately," Mr. Byers recalls, "and the first Killam Scholarships were awarded in 1967, only two years after her death."

Twenty years and hundreds of scholars later, the Killam Trusts remain among the most prestigious awards in the country. □

Selection Committee for Dean: Faculty of Arts

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Arts. The appointment will take effect 1 July 1988 or as soon as possible thereafter. The current Dean has advised that he will not be a candidate for the position. Suggestions of possible candidates and assessments of the leadership needs of the Faculty are invited.

Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three referees, should be submitted by 15 January 1988 to: Dr. J. Peter Meekison, Vice-President (Academic), Third Floor, University Hall, University of Alberta, Edmonton, Alberta T6G 2J9

Never Knowing What it Means to Have a Friend

Autism is a condition of extreme isolation; the factors that cause it are not yet known. A study of the behavior and background of autistic patients offers better ways of helping them socialize, and may provide clues to the causes.

Catherine Lord is studying autistic children and adults—forward and backwards.

Working forwards, the University of Alberta clinical psychologist (Department of Pediatrics) is closely observing autistic behavior—what it is that makes the autistic person socially difficult, and how these things change as the person develops. "Then we try to build ahead and create strategies that will help them fit in better," says Lord.

"Working backwards, we're looking at the family background to see if there's any history of handicaps and mental retardation in the immediate or outer families. This may help us see if the problem might be genetically transmitted. Poor parenting has definitely been ruled out as a cause, but there does seem to be a genetic component in some cases. But is it one gene, or a combination of genes and risk factors?"

Autism is a condition that is hardly understood, although it afflicts at least one person in 2,000—a higher proportion of the population than is deaf or completely blind.

"That's the number if you define autism fairly narrowly," says Lord, "but if you include children with some autistic characteristics, the figure is probably closer to one in 1,000." (Autism is not the same as mental retardation, although some of the autistic may be mentally retarded.)

A sure diagnosis of autism is not usually possible before about age three. However, three-quarters of the parents of autistic children tell Lord that from birth they thought something was wrong with the child but didn't know what. Twenty-five percent of parents, on the other hand, say their child was normal until 12 or 18 months old, but at that age social development seemed to stop.

A deep-seated inability to function socially is one of autism's distinguishing characteristics. A young autistic child's attention is often centred on himself and he doesn't know how to include others in his life. (Statistics suggest that autistic boys outnumber girls by four to one.) He lacks the ability to look for help or comfort from others, to share or to show

enjoyment, and has problems in very specific social skills such as eye contact and use of gesture.

The autistic also have a particular communication disorder. Although they learn words and can speak, words don't seem to have an intrinsic meaning for them. They learn phrases, and become able to slot them into what may or may not be the right context, but it is more parrot-fashion than from understanding the meaning of the words they use. This makes it difficult for them to carry on a conversation as adults: they may want to talk about something, but they have no sense of what to tell so that it means anything to someone else.

Restricted Interests

An autistic person also has notably restricted interests (one of Lord's patients has a passionate interest in lampposts, another one is interested in elevators) and persistently repetitive behavior (ranging from constant flicking of the fingers to an obsession with closing doors or drawers).

From closely observing the behaviors of autistic children enrolled in her group programs at the Glenrose Hospital in Edmonton, Lord says she and her researchers "have learned the uselessness" of trying to make an autistic child do things he finds unnatural—such as making eye contact. What does work, Lord has found, is to have the child memorize reminders of approximately suitable behaviors: "When I talk to someone, if they sit, I sit; if they stand, I stand." This sort of reminder is something an autistic person can learn and use to behave in a more socially appropriate way, so that they fit better into the general scene.

"Many of the kids really want friends," says Lord, "but they don't have a clue what to do." Friendship is very difficult for the autistic person, who doesn't seem able to conceive how other people function or the basics of how other people get along together.

Lord's group programs help autistic children learn to enjoy being with others and doing things with others. The autistic child is assigned a normal partner who gradually draws him into activities, and even the reluctant participator eventually learns to look forward to attending.

"You do see changes in the children as they get older. But a person never loses their autism," says Lord. "One thing we do

know—a child who grows up in a loving home, where family members have adapted as much as possible to their needs, will do much, much better than a child who grows up in a home full of stress and tension."

Dr. Lord's work is supported by the Social Sciences and Humanities Research Council, the Natural Sciences and Engineering Research

Council, the Alberta Heritage Foundation for Medical Research and the Medical Sciences Institute. She is working in collaboration with medical researchers at the University of North Carolina and the MRC Child Psychiatry Unit at the University of London. □

**Reprinted from Research Report, published by the University's Office of Public Affairs.*

Nobel Laureate to Lecture on Newton's Principia

The Theoretical Physics Institute of the Department of Physics is pleased to announce a public lecture, "The Intellectual Achievement that the *Principia* is," by S. Chandrasekhar, Distinguished Service Professor of Astrophysics at the University of Chicago.

Dr. Chandrasekhar received the Nobel prize in 1983 for his work on stellar evolution and white dwarf stars. His discovery (at the age of 20) that no white dwarf can have a mass larger than 1.44 solar masses led to the recognition that stars heavier than this must end their lives explosively, in some cases forming black holes.

In the five decades since this pioneering work, Dr. Chandrasekhar has turned his attention successively to five other areas of astrophysics. To each he has made fundamental contributions, and in each case he has summarized his findings in a definitive research monograph surveying the entire field. His current area of research is general relativity.



S. Chandrasekhar

He was editor of the *Astrophysical Journal* from 1952 to 1974. Under his stewardship, the *Journal* advanced to become the most influential journal of its kind in the world, says F.C. Khanna, Director of the Theoretical Physics Institute.

Dr. Chandrasekhar's lecture is scheduled for Thursday, 22 October, at 4 p.m. in Room P126, Avadh Bhatia Physics Laboratory. It is the concluding lecture in a series by distinguished visitors celebrating the 300th anniversary of the publication of Newton's *Principia*. □

New Look for Speakers Bureau

The Speakers Bureau, coordinated by the Office of Public Affairs (OPA), has a brand-new face in the form of a brochure. It details the hundreds of topics on which University people are willing to talk.

The brochure, compiled and produced this past summer by OPA, lists some 55 subject areas from Agriculture and Farming to Work Environment and Conditions. Under each subject head are the topics and names of University people willing to speak. There are more than 250 people listed with the Bureau and in

excess of 700 topics from which to choose.

OPA acts as the intermediary between the requesting group and speaker. All that is required is for the group to choose a speaker, give OPA four weeks' advance notice in writing, along with the time, place and the function and any pertinent information about the group. OPA then does the rest.

The Speakers Bureau is a community service, one that allows the University to share the expertise and knowledge contained in its Faculties and departments. □

Chemotherapy: What is it Like to Live With Someone Who is Getting it?

Sharon Wilson is anxious to talk to friends whose wives are undergoing, or who have undergone, chemotherapy for cancer.

"Many women experience unpleasant side effects from chemotherapy, and watching someone suffer in this way is very distressing for family members," says graduate student Wilson (Nursing).

"The husband is often the most important person providing support for his wife while she undergoes treatment, and often he is the one who provides day-to-day

care for her. He may find things particularly difficult when she's suffering from nausea and loss of hair and weight because of the treatments."

Wilson would like to hear from husbands what it's like to become the supporter and homemaker during this difficult period.

"This will help nurses in future understand better how to help a husband in that trying time," she says.

If you are willing to share your experiences (in confidence) with Wilson, call the Faculty of Nursing, 432-8233, during business hours. □

Look for 75th Anniversary Lecturer to 'Milk His Audience'

West German dairy scientist Edmund Renner is the Nathaniel H. Grace Lecturer for the University of Alberta 75th Anniversary Lectures sponsored by the Alberta Research Council.

Dr. Renner's public lecture—"Milk, Health and the Consumer"—will take place on 20 October, 4 p.m., in L-1 Humanities Centre.

Pavel Jelen (Food Science) says Dr. Renner is one of a small number of people in the world who is familiar with the effects of technology on nutritional aspects of dairy products. Such technology includes the effects of heat, that is, ultra-high temperature, processing on milk and milk components.

Dr. Renner's laboratory at the Justus Liebig University in Giessen, West Germany, is one of three in the DGR whose excellence in dairy research is known far and wide. He is, of course, well versed in such continuing debates as margarine vs. butter, aspects of fermented dairy products in human nutrition

and the importance of calcium as a nutrient in milk and dairy products.

Dr. Renner has been invited to lead dairy research projects in Argentina, Turkey and Egypt.

Dr. Jelen has come to know Dr. Renner well because the West German and four of his colleagues have carried out research at our University. "Our students are always accepted there," Dr. Jelen points out.

The other two lectures in the ARC series will be given by John Oliver, Chairman of the Crop Protection Institute of Canada, and Larkin Kerwin, President of the National Research Council. The lecture titles are "Farming's Future - Economic Stimulator or Social Problem" (Mr. Oliver) and "With the Ten-Stringed Lute" (Dr. Kerwin).

Mr. Oliver, the Robert M. Hardy Lecturer, will speak on 24 November; Dr. Kerwin, the John A. Allan Lecturer, will speak on 1 December. □

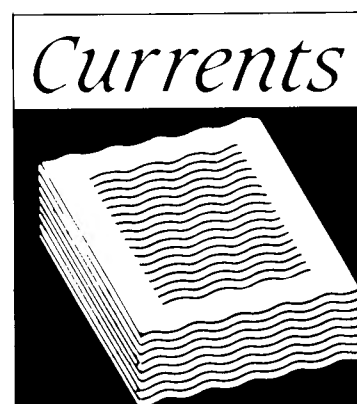
University's Stock of Chemicals Swells

During the summer months, several large batches of unopened containers of surplus chemicals were received by the University Chemical Reclamation Program. The chemicals, which came from industrial and government laboratories and the Ellerslie disposal facility, have now been catalogued and are available free to University staff. Requests either for list #9, which includes the newly acquired chemicals, or a complete list of chemicals in stock should be sent to Patrick Doran, University Chemical Reclamation Program,

c/o Department of Chemistry (telephone 432-8825).

The complete list is also accessible in the file 'RECYCLE' of CSID 'CHGR'. Orders are filled on a first-come, first-served basis and should be sent to Mr. Doran. When ordering, quote the name of the chemical, the quantity required and the code, for example XXI A24, from the comments section of the list.

A mailing list of people who wish to receive regular information about the program is being compiled. To add your name to the list, or for further information about the program, contact Patrick Doran. □



Management Workshops

The Faculty of Extension is presenting "Conducting Need Assessments - An Introduction" on 23 October, and "Assessing Program Effectiveness" on 19 and 20 November. For further information or a brochure, call 432-5069.

Faculty Women's Club Luncheon

The Faculty Women's Club will hold its Fall Luncheon on Tuesday, 20 October, at noon in the Faculty Club. Guest speaker will be world champion trapshooter, Susan Natrass. Natrass is also a coach and scholar and is currently working in administration in the Faculty of Physical Education. She won the 1987 YWCA "Tribute to Women Award" in the Athletics, Recreation and Fitness category.

For information and tickets (\$9), call 434-7392, 483-1968 or 436-3833.

Positions

The University of Alberta is an equal opportunity employer.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Executive Director, Centre for Constitutional Studies

The Centre for Constitutional Studies, Faculty of Law, University of Alberta, requires an Executive Director who will be responsible for the day-to-day operation of the Centre. Among the duties of the Executive Director are the following:

1. Supervision and management of the *Charter of Rights* data base.
2. Supervision and coordination of employees of the Centre.
3. Establishment and maintenance of the Administrative Office of the Centre.
4. Coordination and logistical support for Visiting Scholars.
5. Executive Secretary to the Management Board.
6. Supervision of accounts and preparation of funding proposals.
7. Editor of the Centre Newsletter.
8. Administration of the Public Lecture Series.
9. Administrative assistance for conference preparation and organization.
10. Coordination of publications of the Centre.
11. Other duties as assigned.

Applicants for this position should hold advanced degrees in Constitutional Studies. Fluency in both official languages is an asset.

Term of employment: one year with the opportunity for renewal.

Salary: \$35,000 to \$40,000 per year.

Apply to: Professor Bruce P. Elman, Chairman, Management Board, Room 465 Law Centre, University of Alberta, Edmonton, Alberta T6G 2H5.

Tenure-Track Teaching Position, Early Childhood Education, Department of Elementary Education

Applications are invited for an Early Childhood Education position in the

David G. Holberton, 1947 - 1987

David Holberton, Department of Computing Services, passed away on 1 October after a lengthy illness.

Mr. Holberton began his career at the University in 1967 as a computer operator with Computing Science. He was promoted to console operator at the beginning of 1969 and was quickly advanced as a programmer in 1970.

Among his accomplishments during his 20 years with the University were contributions to

Printing Services' calendar production using paper tapes and their magnetic tape reader, extended FMT knowledge, design and development work on TEXTFORM, production of Volume IV (poetry) of *The Collected Writings of Louis Riel/Les Ecrits complets de Louis Riel*, the smooth operation of the initial Micro Store, and, most recently, support for the complete line of Apple products.

Dave Holberton contributed

greatly to the running of Computing Services and is most noted among the users as someone who understood what service meant, as he always had their best interests at heart. Mr. Holberton will be missed but always remembered in many office around campus.

He is survived by his loving wife, Arlene, and his two children, Craig and Katherine. □

Department of Elementary Education at the assistant professor level (salary floor \$31,612 per annum, under review).

Date of appointment (budget permitting): 1 July 1988.

Duties will include undergraduate and graduate teaching in curriculum and instruction courses in early childhood education, involvement in courses with a focus on general teaching skills, practicum supervision and graduate thesis supervision. A strong commitment to research is necessary. Expertise in another area of elementary school instruction will be an asset. Doctorate (or near completion) and teacher certification required. In addition, the candidate should have teaching experience relevant to early childhood education.

Closing date: 31 January 1988.

Applications, including a current *curriculum vitae* and name of referees, should be sent to: Dr. Warren D. Wilde, Chairman, Department of Elementary Education, University of Alberta, Edmonton, Alberta T5G 2G5.

Tenure-Track Teaching Position, Mathematics Education, Department of Elementary Education

Applications are invited for a Mathematics Education position in the Department of Elementary Education at the assistant professor level (salary floor \$31,612 per annum, under review).

Date of appointment (budget permitting): 1 July 1988.

Duties will include undergraduate and graduate teaching in mathematics education, involvement in courses concerned with general teaching skills, practicum supervision and graduate thesis supervision. A strong commitment to research is necessary. Doctorate (or near completion) and teacher certification required.

Closing date: 31 January 1988.

Applications, including a current *curriculum vitae* and names of referees, should be sent to: Dr. Warren D. Wilde, Chairman, Department of Elementary Education, University of Alberta, Edmonton, Alberta T5G 2G5.

Music Education Position, Department of Secondary Education

Applications are invited for a Music Education position in the Department of Secondary Education at the assistant professor level (salary floor \$31,612 per annum).

Date of appointment (budget permitting): 1 July 1988. Duties will include undergraduate and graduate teaching in curriculum and instruction courses in music education, development of general teaching skills through supervision of field experience and related course work and graduate student supervision. While the successful candidate will be involved primarily with the preparation of teachers for secondary schools, ability to teach instrumental music education at all levels is necessary as work with preparing teachers for elementary schools may be required. In addition, jazz/stage band experience would be an asset. Doctorate (or near completion) and teacher certification required.

Closing date: 31 January 1988.

Applications, including a current *curriculum vitae* and names of referees, should be sent to: Dr. Ken G. Jacknicke, Chairman, Department of Secondary Education, University of Alberta, Edmonton, Alberta T6G 2G5.

Department of Educational Foundations, Special Sessions 1988

The Department of Education Foundations will be making the following appointment for Special Sessions 1988 (4 to 22 July): EDFDN 501/401 - Conference Course on Selected Topics - "Education For Justice, Human Rights and Development - Third World Perspectives."

This course has the following objectives: (a) to introduce students to contemporary theorizing and conceptualization in education for justice, human rights education, development; and (b) to review possible pedagogical strategies for teaching and learning about issues of justice, development and human rights.

Applicants should have experience teaching at the graduate level and have published in the course area. Maximum salary for the teaching assignment will be \$2,676.

Please send applications to: Dr. R.J. Carney, Chairman, Department of Educational Foundations, Faculty of Education, University of Alberta, Edmonton, Alberta T6G 2G5

Deadline for applications: 31 December 1987.

Assistant Professor in Hebrew Literature, Department of Religious Studies

The Department of Religious Studies invites applications for a tenure-track appointment in Hebrew Language at the junior assistant professor level, starting 1 July 1988. Minimum salary for 1987-88 is \$31,612.

The successful candidate must be competent in both Biblical and Modern Hebrew, and have native or near-native fluency in the latter. Completed PhD and demonstrated research and teaching ability are expected; competence in one or more periods of Hebrew Literature is desirable. Applicants should specify their areas of scholarly expertise.

Applications, which should include a *curriculum vitae*, names of three referees, and transcripts, should be sent to: Dr. T.M.S. Priestly, Chairman, Department of Religious Studies, University of Alberta, Edmonton, Alberta, Canada T6G 2E5, by 1 February 1988.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 9 October. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Senior Financial Records Clerk, Housing and Food Services, (\$1,366-\$1,716)
Student Records Processing Clerk I, Faculty of Extension, (\$1,366-\$1,716)
Clerk Steno III (Term of six months), Faculty of Extension (Land Economics and Real Estate), (\$1,366-\$1,716)
Secretary, Agricultural Engineering, (\$1,522-\$1,945)
Secretary (Half-time, Term to 31 March 1989), Canadian Institute of Nordic Studies, (\$1,522-\$1,945 pro-rated)
Administrative Clerk (Accommodations Coordinator), Housing and Food Services, (\$1,522-\$1,945)
Departmental/Executive Secretary, Office of the Vice-President (Academic), (\$1,716-\$2,208)
Departmental/Executive Secretary, Anatomy and Cell Biology, (\$1,716-\$2,208)

Housing Worker, Housing and Food Services, (\$1,226-\$1,522)
Security Watchman (Shift), Housing and Food Services, (\$1,226-\$1,522)
Ice Rink Attendant (Recurring Term), Physical Education and Recreation Support Services, (\$1,412-\$1,791)
Typographical Tradesman II, Printing Services, (\$1,522-\$1,945)
Farm Technician I (Temporary), Animal Science, (\$9.12-\$11.69 per hour)
Maintenance Worker I, Physical Plant, (\$1,648-\$2,115)
Technologist I (Trust), Medicine—Dermatology and Cutaneous Sciences, (\$1,945-\$2,510)
Technologist II (Textiles), Home Economics, (\$2,115-\$2,741)
Technologist II (Trust), Medicine—Nephrology and Immunology, (\$2,115-\$2,741)
Programmer Analyst II, Geography, (\$2,304-\$2,992)
Programmer Analyst III, Physical Education and Recreation Support Services, (\$2,741-\$3,579)

For vacant Library positions, telephone 432-3339.

Talks

Club IDC

15 October, 2:30 p.m. L. Reyes and E. Rosales, University of El Salvador, "The University of El Salvador and the Civil War." 4-110C Education North.

Nordic Studies Colloquium

15 October, 3 p.m. Thomas Lundén, Head, Department for Education and Research, Swedish Institute, Stockholm, "Stockholm as a Cultural Landscape." 3-36 Tory Building.

Classics

15 October, 3:30 p.m. E.L. Harrison, Senior Lecturer in Greek, University of Leeds, U.K., "Vergil's Aeneid: Some Patterns, Some Problems." 1-8 Humanities Centre.
16 October, noon. Dr. Harrison, "Vergil and Dido." L-2 Humanities Centre.
22 October, 3:30 p.m. Peter L. Smith, Professor of Classics, University of Victoria, "Ovid's Myth of Tereus (Metamorphoses 6.424-674)." 1-8 Humanities Centre.
23 October, 11 a.m. Peter L. Smith, "Horace and the Italian Countryside" (illustrated). L-4 Humanities Centre.

CITL

19 October, 10 a.m. Peter Lown, "Copyright." TB-W2 Tory Building.
19 October, 3 p.m. Gordon Fearn, "Developing a Graduate Seminar on Teaching and Professional Skills." TB-W2 Tory Building.
21 October, 3:30 p.m. Patricia Demers, Keith Denford and Brian J. Silzer, "Effective Use of the Nine Point Grading System." TB-W2 Tory Building.
22 October, 2:30 p.m. S. Keith Ward, Academic Dean, The King's College, "Cheating and Plagiarism: Toward Restoring Trust." Classroom F, 2/J4.02 Mackenzie Health Sciences Centre.

English

21 October, 4 p.m. Isobel Grundy, Queen Mary College, University of London, "The Poet and Her Muse." 5-20 Humanities Centre.

28 October, 7:30 p.m. Donald K. Fry, Poynter Institute, "Caedmon and Abbess and Hild: Inventors of English Poetry." 4-29 Humanities Centre.

Economics

16 October, 3 p.m. B. Von Hohenba' "Computational Geometry in Spat Economics." 8-22 Tory Building.
19 October, 3 p.m. Jo Anna Gray, Washington State, "Some Evidence on the Role of Contractual Wage Rigidities in Determining Output and Employment." 8-22 Tory Building.
Co-sponsored by Marketing and Economic Analysis.
23 October, 3 p.m. P. Coyte, C.R. Lindsey, B. Von Hohenbalken and D. West, "Spatial Monopolistic Competition with Two-Part Tariffs: Video Cassette Rentals in Edmonton." 8-22 Tory Building.

Physics

22 October, 9:30 a.m. S. Chandrasekhar, Nobel laureate, University of Chicago, "On the Collision of Gravitational Waves in General Relativity." V-129 Physics Building.
22 October, 4 p.m. S. Chandrasekhar, "The Intellectual Achievement that the Principia is." P126 Avadh Bhatia Physics Laboratory.

Mathematics

29 October, 4 p.m. Stuart Bramley, University of Strathclyde, Glasgow, "The Numerical Solution of Viscous Flow in a Two Dimensional Channel Using Boundary Fitted Coordinates." 657 CAB.

Plant Science

16 October, 12:30 p.m. H. Klein-Gebbinck, "The Use of Inoculum Density to Predict Disease Incidence." 1-06 Agriculture-Forestry Building.
23 October, 12:30 p.m. E. Allen, "Gender Modification in *Arisaema* - Sex, Drugs and Dragons." 1-06 Agriculture Forestry Building.

Women's Studies Program

16 October, 3 p.m. "Reading Feminist Texts Together." Discussant: S. Arntzen. Text: *The Gossamer Years: A Diary of a Noblewoman of Heian Japan*. 5-20 Humanities Centre.
19 October, 4 p.m. "Reading Feminist Texts Together." Discussant: Cathy Bray. Text: Evelyn Fox Keller and Helene Moglen, 'Competition and Feminism: Conflicts for the Academic Woman,' *Signs*, 12,3 (Spring 1987), pp. 493-511. 5-20 Humanities Centre.
27 October, 4 p.m. Isobel Grundy, Queen Mary's College, University of London, "Sarah Gardner: 'Such Trumpery' and a 'Lustre to Her Sex.'" 5-20 Humanities Centre.

Art History and Art and Design

16 October, 3 p.m. Susan Powelson, "On Line Research Resources in the Fine Arts." 2-28 Fine Arts Building.

Zoology

16 October, 3:30 p.m. Lawrence D. Harder, Department of Biological Sciences, University of Calgary, "Selective Foraging by Bumblebees: Objectives and Consequences." M-149 Biological Sciences Centre.
23 October, 3:30 p.m. Frank Moore, Department of Zoology, Oregon State University, Corvallis, "Neuropeptides in

Amphibian Reproductive Behavior.”
M-149 Biological Sciences Centre.

Nursing

19 October, 4 p.m. Agnes Aamodt, Professor and Division Coordinator, Maternal-Child Nursing, College of Nursing, University of Arizona, Tucson, “The Concept of Caring Cross-Culturally.” Classroom D, 2F1.04 Mackenzie Health Sciences Centre. Funded by the Alberta Heritage Foundation for Medical Research.

Centre for Criminological Research

20 October, 4 p.m. Antoine Garapon, Juge des Enfants, Créteil, France, “The Family Court Judge in France.” Conference Room B2, Law Courts Building (97 Street and 102A Avenue). Co-sponsored by the Family and Youth Court Divisions, Alberta Attorney General.
21 October, 10 a.m. Antoine Garapon, “Juvenile Justice in France.” B-121 Tory Building. Co-sponsored by the Faculty of Law and the School of Social Welfare, University of Calgary.

Forest Science

21 October, noon. Stew Pickford, Professor of Forestry, University of Washington, “Turning Data Into Information: Information Management and Wildland Fire.” 4-1 Mechanical Engineering Building.

Computing Science

21 October, 3:30 p.m. Hisao Kuma, Department of Information Science, Teikyo University of Technology, “The Autonomous Distributed Total Hospital Information System.” 619 General Services Building.
28 October, 3:30 p.m. Ted Swart, Department of Math and Statistics, University of Guelph, “Is P = NP?” 619 General Services Building.

Romance Languages and Comparative Literature

21 October, 4 p.m. Raymond Federman, “Petit Voyage Dans Les Paysages En Ruines De Samuel Becket.” 2-34 Humanities Centre.
22 October, 4 p.m. Professor Federman, “Postmodern Fiction and How to Get Rid of It.” L-2 Humanities Centre.
23 October, noon. Professor Federman, “Reading From His Own Creative Work.” 5-20 Humanities Centre.

Vice-President (Academic’s) Coordinating Committee on Women’s Studies

21 October, 7:30 p.m. “Firewords”—an NFB, Studio D film about three Quebec woman writers. L-12 Tory Lecture Theatre.

Limnology and Fisheries Discussion Group

22 October, 12:30 p.m. Mark Hanson, “Consequences of Muskrat (*Ondatra Zibethicus*) Predation on the Growth and Production of a Unionid Clam (*Anodonta Grandis Simpsoniana*).” M-149 Biological Sciences Centre.
29 October, 12:30 p.m. Dave Trew, Alberta Environment, “Sensitivity of Alberta Lakes to Acid Deposition and Determination of Critical Acidic Loadings.” M-149 Biological Sciences Centre.

Philosophy

22 October, 3:30 p.m. David Stern, “Three Levels of Philosophy.” 4-29 Humanities Centre.

Law

24 October, 9:30 a.m. Saturday Morning at the Law School—“Tax Reform Proposals and the Individual.” 231 Law Centre.

Boreal Institute

27 October, 12:30 p.m. Lynda Lange, “Some Contradictory Effects of Internal Colonialism on the Situation of Dene Women of the Northwest Territories.” 14-6 Tory Building.

Anthropology

27 October, 3:30 p.m. M.A. Katzenberg, Department of Archaeology, University of Calgary, “Chemical Analysis of Bone and the Reconstruction of Human Diet.” 14-6 Tory Building.

Women’s Program—Extension

28 October, noon. Anne Cameron, feminist poet and author, will read selections from her forthcoming novel. L-3 Humanities Centre. Co-sponsored by Common Woman Books.

Sociology

28 October, noon. Rosemary Deem, Distinguished Visitor, “Work, Unemployment and Leisure.” 5-15 Tory Building.

Education

29 October, 3:30 p.m. Professor Deem, “Gender and Schooling.” 5-180 Education North.

Sports

Volleyball

15 October, 7:30 p.m. Pandas vs. UCLA Bruins. Varsity Gym.

Football

17 October, 2 p.m. Golden Bears vs. University of Calgary. Commonwealth Stadium.

The Arts

FAB Gallery

20 October to 1 November. “Staff Exhibitions.” 1-1 Fine Arts Building.

McMullen Gallery Mackenzie Health Sciences Centre

Until 31 October. “In Touch With Abstract Art”—an opportunity to experience the tactile side of contemporary, abstract art.

Ring House Gallery

Until 15 November. “A University Collects: Ancient Egypt.”

Bruce Peel Special Collections Library

Until 27 November. “Great Scott! The Literary World of Sir Walter Scott.” First and early editions of Scott’s poems and novels with those of his predecessors and contemporaries, accompanied by Scott’s lively comments upon them. 8:30 a.m. to 4:30 p.m. Monday-Friday (closed weekends). B7 Rutherford South.

SUB Theatre

16 to 18 October. Stage Polaris presents “Punch and Judy.” 432-9483.
19 October, 7:30 p.m. The Department of Psychology presents a lecture by Stanford University psychologist Phil Zimbardo. 432-5216.
23 and 24 October, 8 p.m. Decidedly Jazz.
29 October, 6 p.m. Friends of the Edmonton M.S. Clinic present a “Family Variety Show.” 426-2525.

Music

All events take place in Convocation Hall.
18 October, 8 p.m. Visiting Artist—Tiü Haamer, piano (Grande Prairie Regional College).
20 October, 7:30 p.m. Chopin Festival—Piano masterclass with Marek Jablonski. Sponsored by the Registered Music Teachers’ Association.
24 October, 8 p.m. Chopin Festival.
28 October, 8 p.m. Faculty Recital—Alan Ord, bass; assisted by Grant Hurst, piano.

Théâtre Français d’Edmonton

16, 17, 23, and 24 October, 8 p.m., and 25 October, 3 p.m., “Le Bourgeois Gentleman.” 469-0829.

Advertisements

Accommodations available

Sale - Lakefront cabin, Lake Isle (one hour from campus). \$44,900. 467-6273 after 5 p.m.
Rent - Deluxe condominium; 11115 80 Ave. One bedroom plus loft; large storage area, fireplace, five appliances, underground parking, walking distance to University. \$750/month. 1-246-7006.
Rent - University area. Two-bedroom bungalow. Large living room, open fireplace, double garage. Available 1 November. \$695. 435-6878.
Sale - Riverbend condominium. Two bedrooms, two bathrooms. Available immediately. \$78,000. Denise Rout, 435-6355. Spencer Realty.
Sale - Hardisty. Cozy and clean. Well-built, three-bedroom bungalow. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Large, city lots. Buy now, build later. Financing available. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Parkallen. Renovated, four-bedroom, semi-bungalow. Quiet street. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Custom-built bungalow. Attractive, neutral decor. Large yard. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - \$39,500. University area. Two-bedroom condominium. Quiet location. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - West end acreage. 1,600', cozy bungalow. Two fireplaces. Not in

subdivision. Ideal for horse lovers. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Rent - Office space with parking stall, available in private home in Garneau. \$100 per month. 439-9636.
Rent - Parkallen, furnished, three-bedroom house. January to June or August 1988. \$600/month. Correct numbers: 435-8251, 432-5174.
Rent - Furnished bungalow. Three bedrooms, fireplace, 1 1/2 baths, double garage. Fifteen minutes University. Available January 1988 or earlier to August 1988. References. \$750/month. 436-9591.
Sale - By owner. 10925 81 Ave., walk to University. 1,200', three bedrooms. Renovated kitchen and dining room, new furnace, hardwood floors. \$92,900. (Home) 433-2963, (work) 432-4526.
Sale - Riverbend. Impressive, tudor style, two storeys, quiet cul-de-sac, close to river valley. Four bedrooms, main floor den. Professionally developed basement with nanny suite. Ann Dawrant, Spencer Real Estate. 436-5250.
Rent - Charming home near University and downtown, mature trees, fenced yard, two bedrooms, den with balcony. Living, dining and family rooms. Appliances. \$900. Available January or February 1988. 488-7627, anytime.
Sale - Terwillegar Park Estates. Two-storey home. Oak carved staircase, large kitchen with island, view of river valley from deck. \$229,000. Liz Crockford, Ann Dawrant. Spencer Real Estate. 436-5250.
Sale - Old Riverbend. Exclusive, large, two storeys, five bedrooms plus den. Fantastic upgrading complete with jacuzzi, greenhouse, three fireplaces. Private backyard. Liz Crockford, Spencer Real Estate, 436-5250, 480-2352.
Sale - Just listed near the river in New Riverbend. Two storeys, open plan, oak cabinetry, jacuzzi, big, private, west, backyard. \$165,900. Liz Crockford, Spencer’s, 436-5250.

Automobiles and others

1981 Pontiac LeMans Safari stationwagon, V6, air, am/fm cassette, new tires. Excellent running. \$3,250. 469-6731.

Goods for sale

Piano, walnut, Lesage, studio-size with bench, tuned, excellent condition. \$2,250. 434-7613.
Piano, Alexandra cabinet, grand, mahogany, ivory keys, moderate condition, deep tones. \$1,200. 433-4555.
Painted and stained glass, 19th century, Polish window. Copernicus cameo. Green tones. Framed 2’x2’8”. \$300. 433-4555.
Handwoven, Eastern, soumac rug. Camels, cartouches, wool, perfect condition, 1930s, 4x5 feet. \$400. 433-4555.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.
Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Ave. 436-8059.
Professional typing, \$1.20/page. Phone 435-3398.
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dicta-typing. Thesis special, \$18/hour (min. 75 pages). 432-0138.
 Word processing. Theses, papers. Pick-up and delivery included. 488-0547.
 Complete drywall services, specializing in taping, old-fashioned plaster ceilings. All work guaranteed. References. Stan, 479-6640 after 5 p.m. 459-5084.
 Residential contractors, design, additions, renovations, new homes. Innovation Plus Developments Limited. 437-6917.
 Eclectic Visuals - Photography. Experience and inexpensive. 489-2630.
 Editing and research assistance by MA (English). 434-8975.

Professional typing. 17 years' experience in English Department. Linda, 462-8371.
 Workshop: French-Canadian/Bulgarian dance: 7, 8 November; University campus. Fee: \$25. Instructors: France Bourque/Yves Moreau. Register 9 a.m., 7 November, main gym, Physical Education Building west. Ann, 461-5950.
 Professional typist - Word processing. Laser jet printing. Theses, papers, manuscripts. Joan, 467-9567.

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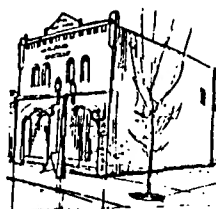
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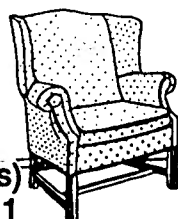
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